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LIST

OF

BRITISH DIATOMACEÆ

IN

THE COLLECTION

OF THE

BRITISH MUSEUM.

BY

THE REV. W. SMITH, F.L.S. &c.

LONDON:
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PREFACE.

This Catalogue contains a list of the specimens of British Diatomaceæ in the Collection of the British Museum. It is arranged according to the Rev. William Smith's 'Synopsis of the British Diatomaceæ.'

The specimens were all received from the Author of that work; they form two series. The first are mounted on glass slides for microscopic examination, and arranged in a cabinet, as the types of his species. The second series consist of masses of the species dried on paper or talc, in little paper pockets mounted on sheets of foolscap paper. Each slide and pocket is marked with his initials, thereby showing that they have been examined by him, and represent the species described and figured in his work.

JOHN EDWARD GRAY.

Nov. 1, 1859.

LIST

OF

BRITISH DIATOMACEÆ.

Tribe I. DIATOMADÆ.

Subtribe 1. NAVICULEÆ.

1. EPITHEMIA, *Smith, Synopsis of the British Diatomaceæ*, i. 11.

1. EPITHEMIA HYNDMANII, i. 12. t. 1. f. 1. B.M.
   a, b, c. Peat.*

2. EPITHEMIA TURGIDA, i. 12. t. 1. f. 2; Frontispiece, i. f. ii. B.M.
   a. Lewes, May 1850.
   b. Sussex, Aug. 1859.

3. EPITHEMIA GRANULATA, i. 12. t. 1. f. 3. B.M.
   a. N.E. corner of Lough Mourne, Antrim.

* The specimens in Roman type are mounted on slides for the microscope, and those in *Italic* are on Talc or Paper.

4. EPITHEMIA ZEBRA, i. 12. t. 1. f. 4. B.M.
   a. Wray near Lancaster, Aug. 16, 1850, with other Diatomaceæ.
   b. *Lancaster, July* 1850.

5. EPITHEMIA ARGUS, i. 12. t. 1. f. 5. B.M.
   a. Near Aberdeen, *Dr. Dickie.*
   b. *Aberdeen, Dr. Dickie.*

6. EPITHEMIA OCELLATA, i. 13. t. 1. f. 6. B.M.
   a. Falls of the Clyde.

7. EPITHEMIA LONGICORNIS, i. 13. Supp. t. 30. f. 247. B.M.
   a. Arran, *Prof. Arnott,* Aug. 1852.
   b. *Arran, Aug.* 1852.

8. EPITHEMIA ALPESTRIS, i. 13. t. 1. f. 7. B.M.
   a. Katefield near Lancaster, *Mr. G. Smith,* April 1851.

9. EPITHEMIA PROBOSCIDEA, i. 13. t. 1. f. 8. B.M.
   a. St. Ouen's Pond (Jersey), Aug. 2, 1852.
   b. *Jersey, Aug.* 1852.

10. EPITHEMIA SOREX, i. 13. t. 1. f. 9; Frontispiece, i. f. ix. B.M.
   a. Lewes, August 1852.
   b. *May* 1850.

11. EPITHEMIA MUSCULUS, i. 14. t. 1. f. 10. B.M.
   a. Lymington, Hants, Sept. 12, 1854.
   b. *Lymington, Sept.* 1854.

12. EPITHEMIA WESTERMANII, i. 14. t. 1. f. 11. B.M.
   a. Lewes, Oct. 16, 1851.
   b. Tarring Neville, Sussex, Nov. 24, 1853.
   c. *Sussex, Nov.* 1853.

13. EPITHEMIA RUPESTRIS, i. 14. t. 1. f. 12. B.M.
   a. Backsbottom near Lancaster, *Mr. G. Smith,* May 1851.
   b. *Ormesby, Oct.* 1853, named "*E. alpestris.*"

14. EPITHEMIA CONSTRICTA, i. 14. Supp. t. 30. f. 248. B.M.

a. Excet, Sussex, March 16, 1852.
b. Newhaven, Sussex, Oct. 1853.
c. Lewes, Sussex.
d. *Sussex, March* 1852.

15. EPITHEMIA GIBBA, i. 15. t. 1. f. 13. B.M.

a. Lewes, Sept. 1851.
b. *Wareham, July* 1849.

16. EPITHEMIA VENTRICOSA, i. 15. t. 1. f. 14. B.M.

a. Lewes, Aug. 12, 1851.
b. Tarring Neville, Sussex, Nov. 1853.
c. *Lewes, Oct.* 1850.

2. EUNOTIA, *Smith*, i. 15.

[1. EUNOTIA ARCUS, i. 16. t. 2. f. 15; Frontispiece, i. f. xv. B.M.

a. Windermere, Aug. 3, 1853.
b. Wray, *Mr. G. Smith*, Jan. 1, 1852.
c. (Scotland), *Dr. Arnott.*
d. *Windermere, Aug.* 1853.
e. *Wray, Jan.* 1852.
f. *Arran, Aug.* 1854.

2. EUNOTIA GRACILIS, i. 16. Supp. t. 30. f. 249. B.M.

a. New Forest, Sept. 11, 1854.
Var. β. *a.* Scotland, *Dr. Arnott.*
b. *New Forest, Sept.* 1854.
c. *Redesdale, Oct.* 1854.

3. EUNOTIA MONODON, i. 16. t. 2. f. 16. B.M.

a. Ben M^c^Dhui, 3000 feet, *Mr. P. Grant.*

4. EUNOTIA DIODON, i. 16. t. 2. f. 17. B.M.

a. Near Aberdeen, *Dr. Dickie.*

5. EUNOTIA TRIODON, i. 16. t. 2. f. 18. B.M.

a. Ben M^c^Dhui, 3000 feet, *Mr. P. Grant.*

6. EUNOTIA TETRAODON, i. 16. t. 2. f. 19. B.M.
   a. Dolgelly, *Mr. C. Johnson.*

7. EUNOTIA DIADEMA, i. 17. t. 2. f. 20. B.M.
   a. Lough Avaul (?), co. Cork, June 1855.
   b. Dolgelly, *Mr. C. Johnson,* Jan. 4, 1850.

8. EUNOTIA BIDENTULA, ii. 83.

9. EUNOTIA TRIDENTULA, ii. 83.
   a. Braemar (with *E. quaternaria*).

10. EUNOTIA QUATERNARIA, ii. 83.
   a. Braemar (with *E. tridentula*).

11. EUNOTIA INCISA.
   a. Mull Deposit.

12. EUNOTIA CAMELUS.
   a. Braemar, *Dr. Greville,* 31, 8, 52.

3. CYMBELLA, *Smith,* i. 17.

1. CYMBELLA EHRENBERGII, i. 17. t. 2. f. 21. B.M.
   a. Marl, co. Down, *Mr. M'Adam,* Sept. 3, 1849.
   b. Storrington, Sussex, Aug. 1853.
   c. *Sussex, Aug.* 1853.

2. CYMBELLA CUSPIDATA, i. 18. t. 2. f. 22. B.M.
   a. Wray near Lancaster, *Mr. G. Smith.*
   b. Quernmore, *Mr. C. Johnson,* April 1852.
   c. *Sussex, March* 1845, *Mr. Jenner.*
   d. *Benlawers, Aug.* 1853.
   e. *Lancaster, April* 1852.

3. CYMBELLA AFFINIS, i. 18. Supp. t. 30. f. 250; Frontispiece, i. f. ccl. B.M.
   a. Itford (Sussex), April 10, 1851.
   b. *Itford, Sussex, April* 1852.
   c. *Cockshut, Lewes, Sept.* 1853.
   d. *Parham, Sussex, Feb.* 1854.

4. CYMBELLA MACULATA, i. 18. t. 2. f. 23. B.M.
   a. (River Frome.)
   b. *River Frome, March* 1848.

5. CYMBELLA HELVETICA, i. 18. t. 2. f. 24, ii. 84. B.M.
   a. Menai Bridge, June 28, 1853.
   b. (River Ouse near) Lewes, Sept. 4, 1851.
   Var. β. Cockshut, Lewes, Sept. 1852.

6. CYMBELLA SCOTICA, i. 18. t. 2. f. 25, ii. 84. B.M.
   a. Pass of Killiecrankie, *Mr. P. Grant.*

7. CYMBELLA VENTRICOSA, ii. 84. B.M.
   a. Lewes, May 1852.
   b. *Cockshut, Lewes, May* 1853.

8. CYMBELLA ÆQUALIS, ii. 84; *Ann. & Mag. N. H.* xv. t. 9. f. 4. B.M.
   a. Braemar, *Dr. Greville,* 113, 31, 8, 54.

9. CYMBELLA LUNATA, ii. 84; *Ann. & Mag. N. H.* xv. t. 9. f. 5. B.M.
   a. Braemar, *Dr. Greville,* 2, 5, 54.

10. CYMBELLA ARCUS, ii. 85; *Micr. Journ.* iv. t. 1. f. 21.

4. AMPHORA, *Smith,* i. 19.

1. AMPHORA OVALIS, i. 19. t. 2. f. 26; Front. i. f. xxvi. B.M.
   a. Plumpton, Sussex, April 18, 1852.

2. AMPHORA AFFINIS, i. 19. t. 2. f. 27, ii. 85. B.M.
   a. Newhaven, Sussex, Feb. 1852.
   b. *Sussex, Feb.* 1852.

3. AMPHORA HYALINA, i. 19. t. 2. f. 28. B.M.
   a. *Pevensey, Sussex, Nov.* 1850.
   b. *Lancing, Sussex, Nov.* 1852.

4. Amphora salina, i. 19. Supp. t. 30. f. 251. B.M.
   a. Belfast, July 1853.
   b. Itford, Sussex, Sept. 1852.

5. Amphora (?) tenera, i. 20. Supp. t. 30. f. 252. B.M.
   a. Seaford, April 24, 1850.
   b. Seaford, May 1850.

6. Amphora membranacea, i. 20. t. 2. f. 29. B.M.
   a. Coast of Sussex, 1854.
   b. Sussex, Sept. 1850.

7. Amphora (?) costata, i. 20. Supp. t. 30. f. 253. B.M.
   a. Poole Bay, Sept. 24, 1851.

8. Amphora minutissima, i. 20. t. 2. f. 30. B.M.
   a. Lewes, Dec. 1850.
   b. Mr. Shadbolt, March 1851.

5. COCCONEIS, *Smith*, i. 21.

1. Cocconeis Pediculus, i. 21. t. 3. f. 31; Frontispiece, i. f. xxxi. B.M.
   a. Wareham, Sept. 1851.
   b. Wareham, Aug. 1851.
   c. Shannon, July 1853.

2. Cocconeis Placentula, i. 21. t. 3. f. 32. B.M.
   a. Lewes, Feb. 11, 1853.
   b. Lewes, March 1853.

3. Cocconeis Thwaitesii, i. 21. t. 3. f. 33. B.M.
   a. Bristol, *Mr. Thwaites*, 1848.
   b. Bristol, May 1848.

4. Cocconeis Scutellum, i. 22. t. 3. f. 34; *β*, Supp. t. 30. f. 34. B.M.
   a. Coast of Norfolk, *Mr. Brightwell.*
   b. Norfolk, Sept. 1851.
   c. Galway, July 1853.

5. Cocconeis Grevillii, i. 22. t. 3. f. 35. B.M.
   a. Sidmouth, May 22, 1851.
   b. *Sidmouth, Nov.* 1853.

6. Cocconeis diaphana, i. 22. Supp. t. 30. f. 254. B.M.
   a. The Clyde, *Dr. Arnott.*
   b. *Jersey, Aug.* 1852.

6. COSCINODISCUS, *Smith*, i. 22.

1. Coscinodiscus minor, i. 23. t. 3. f. 36.

2. Coscinodiscus radiatus, i. 23. t. 3. f. 37. B.M.
   a. Stomach of Scallop, Feb. 1851.
   b. Stomach of Scallop, Feb. 1, 1853.
   c. *Stomach of Scallop, Feb.* 1853.

3. Coscinodiscus eccentricus, i. 23. t. 3. f. 38. B.M.
   a. Stomach of Scallop, Feb. 25, 1851.
   b. *Stomach of Scallop, Feb.* 1851.

4. Coscinodiscus concinnus, ii. 85. B.M.
   a. (Stomach of Pecten, Feb. 1854.)
   b. Stomach of Pecten, *Mr. Roper.*

5. Coscinodiscus perforatus, ii. 85.

7. EUPODISCUS, *Smith*, i. 24.

1. Eupodiscus Argus, i. 24. t. 4. f. 39. B.M.
   a. Ipswich, Aug. 1851, *Mr. Hodgson.*

2. Eupodiscus fulvus, i. 24. t. 4. f. 40. B.M.
   a. With *E. crassus*, Poole Bay, Sept. 24, 1851.

3. Eupodiscus crassus, i. 24. t. 4. f. 41. B.M.
   a. Stomach of Scallop, Feb. 1, 1853.

4. EUPODISCUS RADIATUS, i. 24. Supp. t. 30. f. 255. B.M.
   a. River Orwell.

5. EUPODISCUS SCULPTUS, i. 25. t. 4. f. 42. B.M.
   a. Poole Bay, Sept. 24, 1851.

6. EUPODISCUS RALFSII, ii. 86. B.M.
   a. Cumbrae, *Dr. Arnott.*
   b. Ilfracombe, *Mr. Ralfs*, 2, 11, 52.
   c. *Cumbrae, Feb.* 1854.

8. ACTINOCYCLUS, *Smith*, i. 25.

1. ACTINOCYCLUS UNDULATUS, i. 25. t. 5. f. 43. B.M.
   a. Ipswich, Aug. 1851.

2. ACTINOCYCLUS DUODENARIUS, ii. 86. B.M.
   a. Twelve rays, Medway, *E. W. D.*
   b. Fourteen rays, Medway, *E. W. D.*

3. ACTINOCYCLUS SEDENARIUS, ii. 86. B.M.
   a. Sixteen rays, Medway, *E. W. D.*

4. ACTINOCYCLUS OCTODENARIUS, ii. 86. B.M.
   a. Medway, *E. W. D.*

9. ARACHNOIDISCUS, *Smith*, i. 25.

1. ARACHNOIDISCUS EHRENBERGII, i. 26. Supp. t. 31. f. 256. B.M.
   a. Port Natal.

10. TRICERATIUM, *Smith*, i. 26.

1. TRICERATIUM FAVUS, i. 26. t. 5. f. 44, Supp. t. 30. f. 44. B.M.
   a. Thames mud, *Mr. Poulton*, 1850.

2. TRICERATIUM ALTERNANS, i. 26. t. 5. f. 45, Supp. t. 30. f. 45. B.M.
   a. Folkestone, *J. R. Capron*, Nov. 1852.

3. TRICERATIUM STRIOLATUM, i. 27. t. 5. f. 46, ii. 87.

4. TRICERATIUM EXIGUUM, ii. 87. B.M.
   a. Ormesby.

5. TRICERATIUM ARMATUM, ii. 87.

6. TRICERATIUM UNDULATUM. B.M.
   a. River Medway.

11. CYCLOTELLA, *Smith*, i. 27.

1. CYCLOTELLA KÜTZINGIANA, i. 27. t. 5. f. 47; Frontispiece, i. f. xlvii. B.M.
   a. Wareham, Sept. 1851.
   b. *Lewes, Oct.* 1850.
   c. *Eastfleet, Dorsetshire, Sept.* 1852.
   d. *Northfleet, March* 1852.

2. CYCLOTELLA OPERCULATA, i. 28. t. 5. f. 48. B.M.
   a. Plumpton, Sussex, March 1852.
   b. *Plumpton, Sussex, March* 1852.
   c. *Papermill Pond, Lewes, June* 1853.

3. CYCLOTELLA ANTIQUA, i. 28. t. 5. f. 49. B.M.
   a. Cantyre Peat.

4. CYCLOTELLA ROTULA, i. 28. t. 5. f. 50. B.M.
   a. River Shannon, July 1853.
   b. *River Shannon near Athlone, July* 1853.

5. CYCLOTELLA PUNCTATA, ii. 87. B.M.
   a. Wisbeach.

6. CYCLOTELLA DALLASIANA, ii. 87. B.M.
   a. Medway, March 22, 1854, *E. W. D.*

12. CAMPYLODISCUS, *Smith*, i. 28.

1. CAMPYLODISCUS HOROLOGIUM, i. 28. t. 6. f. 51. B.M.
   a. Isle of Skye, *Prof. Williamson.*

2. CAMPYLODISCUS COSTATUS, i. 29. t. 6. f. 52; β, t. 7. f. 52. B.M.
   a. (Scotland), *Dr. Dickie*, 1848.
   b. (Scotland), *Dr. Greville*, 1854.
   c. *Edinburgh*, *April* 1854.

3. CAMPYLODISCUS HODGSONII, i. 29. t. 6. f. 53. B.M.
   a. Ipswich, Aug. 1851.

4. CAMPYLODISCUS SPIRALIS, i. 29. t. 7. f. 54; Frontispiece, i. f. liv. B.M.
   a. Newhaven, Dec. 3, 1832.
   b. *Lancashire*, *Jan.* 1852.

5. CAMPYLODISCUS CRIBROSUS, i. 29. t. 7. f. 55. B.M.
   a. Near Lewes, Dec. 1850.

6. CAMPYLODISCUS PARVULUS, i. 30. t. 6. f. 56. B.M.
   a. Poole, Nov. 2, 1849.

7. CAMPYLODISCUS RALFSII, i. 30. Supp. t. 30. f. 257. B.M.
   a. Ilfracombe, *J. Ralfs*, 30, 10, 52.
   b. *Plymouth*, *Jan.* 1854.

8. CAMPYLODISCUS BICOSTATUS, ii. 88. B.M.
   a. Northfleet (*Mr. Capron*, Sept. 1854).

9. CAMPYLODISCUS CLYPEUS, ii. 88. B.M.
   a. Breydon, Norfolk, 6, 9, 54 (*Mr. Wigham*).
   b. *Breydon*, *Norfolk*.

13. SURIRELLA, *Smith*, i. 30.

1. SURIRELLA BISERIATA, i. 30. t. 8. f. 57; Frontispiece, i. f. lvii. B.M.
   a. Dec. 17, 1849.
   b. *Wareham*, *Dec.* 1849.
   c. *Hampshire*, *Sept.* 1854.

2. SURIRELLA LINEARIS, i. 31. t. 8. f. 58. B.M.
   a. Curwen Hill, Lancashire, *Mr. G. Smith*.

3. SURIRELLA CONSTRICTA, i. 31. t. 8. f. 59. B.M.
   a. Lancing, Sussex, Nov. 1852.
   b. *Lewes, Dec.* 1850.

4. SURIRELLA TURGIDA, i. 31. t. 9. f. 60. B.M.
   a. Lough Neagh, *Dr. Dickie,* 1851.

5. SURIRELLA LATA, i. 31. t. 9. f. 61. B.M.
   a. Ilfracombe, *J. Ralfs,* 30, 10, 52.

6. SURIRELLA SPLENDIDA, i. 32. t. 8. f. 62. B.M.
   a. Falaise, *M. De Brébisson.*
   b. *Ashdown Forest, Sept.* 1851.

7. SURIRELLA NOBILIS, i. 32. t. 8. f. 63. B.M.
   a. N.E. shore of Lough Mourne, Sept. 1849.

8. SURIRELLA STRIATULA, i. 32. t. 9. f. 64; Front. i. t. lxiv. B.M.
   a. Newhaven, Feb. 1852.
   b. Newhaven, Nov. 1853.
   c. *Sussex, Feb.* 1852.

9. SURIRELLA GEMMA, i. 32. t. 9. f. 65. B.M.
   a. Hove, Sussex, Aug. 1850.
   b. *Poole Bay, July* 1849.

10. SURIRELLA FASTUOSA, i. 32. t. 9. f. 66. B.M.
   a. Poole Bay, 1849.

11. SURIRELLA CRATICULA, i. 33. t. 9. f. 67. B.M.
   a. Guildford, *J. R. Capron,* Nov. 1852.

12. SURIRELLA OVALIS, i. 33. t. 9. f. 68. B.M.
   a. Newhaven, Dec. 9, 1852.
   b. Denton, Sussex, Nov. 1853.
   c. *Lewes, Dec.* 1852.

13. SURIRELLA PANDURIFORMIS, i. 33. Supp. t. 30. f. 258. B.M.
   a. Brooks near Lewes.

14. Surirella Brightwellii, i. 33. t. 9. f. 69. B.M.

a. Norwich, *Mr. Brightwell*, 1850.
b. Southsea near Portsmouth, Feb. 1854.
c. *Lewes, Sept.* 1851.

15. Surirella ovata, i. 33. t. 9. f. 70. B.M.

a. Lewes, May 27, 1852.
b. *Lewes, March* 1851.
c. *Bexhill, Sussex, Oct.* 1852.

16. Surirella salina, i. 34. t. 9. f. 71. B.M.

a. Timber Pond, W. I. Docks, Jan. 1852, *Mr. Shadbolt.*

17. Surirella pinnata, i. 34. t. 9. f. 72. B.M.

a. Lewes, Jan. 1852.
b. *Lewes, Jan.* 1852.
Var. minor, Lewes, March 1853.

18. Surirella angusta, i. 34. Supp. t. 31. f. 260. B.M.

a. Newhaven, Dec. 9, 1852.
b. *Lewes, Dec.* 1852.
c. *Falaise.*

19. Surirella subsalsa, i. 34. Supp. t. 31. f. 259. B.M.

a. Newhaven, Dec. 3, 1852.
b. Newhaven, Dec. 9, 1852.
c. *Lewes*, 1852.
d. *Newhaven, Sussex, Nov.* 1852.

20. Surirella minuta, i. 34. t. 9. f. 73. B.M.

a. Corfe Castle, Dec. 21, 1849.

21. Surirella apiculata, ii. 88. B.M.

a. (Haverfordwest), *Mr. Okeden*, April 28, 1854.
b. *Haverfordwest, April* 1854.

22. Surirella Amphioxys, ii. 88.

23. Surirella Crumena, ii. 88. B.M.

a. Near Tantallon Castle, 2, 8, 54 (*Dr. Greville*).

24. SURIRELLA ARCULA, n. s. B.M.
   a. Breydon, *Dr. Arnott*, July 1854.

14. TRYBLIONELLA, *Smith*, i. 35.

1. TRYBLIONELLA SCUTELLUM, i. 35. t. 10. f. 74. B.M.
   a. Poole Bay, 1848.
   b. Northfleet, Sept. 1852.
   c. *Northfleet, Mr. Capron.*

2. TRYBLIONELLA GRACILIS, i. 35. t. 10. f. 75; Frontispiece, i. f. lxxv. B.M.
   a. Lewes, Feb. 18, 1852.
   b. *Lewes, Dec.* 1852.
   c. *Itford, Sussex, Oct.* 1852.
   d. *Itford, Sussex, Dec.* 1853.

3. TRYBLIONELLA MARGINATA, i. 35. t. 10. f. 76. B.M.
   a. Lewes "Brooks," Sept. 5, 1851.

4. TRYBLIONELLA PUNCTATA, i. 36. t. 10. f. 76, Supp. t. 30. f. 261. B.M.
   a. Seaford, July 21, 1850.

5. TRYBLIONELLA ACUMINATA, i. 36. t. 10. f. 77. B.M.
   a. Seaford, Dec. 3, 1852.
   b. *Lewes, Dec.* 1850.
   c. *City Park, Cork, April* 1855.

6. TRYBLIONELLA ANGUSTATA, i. 36. Supp. t. 30. f. 262. B.M.
   a. Guildford, *Mr. Capron.*

7. TRYBLIONELLA LEVIDENSIS, ii. 89. B.M.
   a. City Park, Cork, April 1855.
   b. *City Park, Cork, April* 1855.

8. TRYBLIONELLA CONSTRICTA, ii. 89. B.M.
   a. "*T. Soleiformis.*" Stomach of a Scallop, Kinsale Bay, April 1855.

9. TRYBLIONELLA MINOR, n. s. B.M.

a. Aberdeen, *Dr. Redfern.*
b. *Lewes, Jan.* 1854.

15. CYMATOPLEURA, *Smith*, i. 36.

1. CYMATOPLEURA SOLEA, i. 36. t. 10. f. 78; Front. i. f. lxxviii. B.M.

a. Lewes, May 6, 1850.
b. *Near Lewes, Oct.* 1852.
c. *Itford, Sussex, Oct.* 1854.

2. CYMATOPLEURA APICULATA, i. 37. t. 10. f. 79. B.M.

a. Lewes, May 6, 1850.

3. CYMATOPLEURA PARALLELA, i. 37. Supp. t. 30. f. 263. B.M.

a. Itford (Sussex), Oct. 23, 1852.

4. CYMATOPLEURA ELLIPTICA, i. 37. t. 10. f. 80. B.M.

a. Lewes, May 6, 1850.
b. *Sussex, Aug.* 1853.

5. CYMATOPLEURA HIBERNICA, i. 37. t. 10. f. 81. B.M.

a. River Bann, *Mr. J. F. Cocken,* June 1850.

16. NITZSCHIA, *Smith*, i. 37.

§ I. *Sigmatella.*

1. NITZSCHIA SIGMOIDEA, i. 38. t. 13. f. 104; Frontispiece, i. f. civ. B.M.

a. Brooks near Lewes, Oct. 18 and Dec. 16, 1851.
b. *Lewes, Dec.* 1851.

2. NITZSCHIA BREBISSONII, i. 38. Supp. t. 31. f. 266. B.M.

a. Newhaven, Dec. 9, 1852.
b. *Lewes, Dec.* 1852.
Var. c. Lewes, Dec. 1853.

3. NITZSCHIA SIGMA, i. 39. t. 13. f. 108. B.M.

a. Pevensey, Nov. 7, 1850. (B.)
b. *Pevensey, Sussex, Sept.* 1850.

3*. NITZSCHIA CURVULA, ii. 89. B.M.

a. New Forest, Sept. 1854.
b. *New Forest, Sept.* 1854.

4. NITZSCHIA OBTUSA, i. 39. t. 13. f. 109. B.M.

a. Poole Bay.
Var. β. *b.* Lancing, Sussex, July 1854.
c. *Shagalion, Poole Bay, June* 1850.

5. NITZSCHIA SPECTABILIS, i. 39. t. 14. f. 116. B.M.

a. Cork Harbour, July 1850.
b. *Cork Harbour, July* 1855.

§ II. *Nitzschia.*

6. NITZSCHIA SCALARIS, i. 39. t. 14. f. 115. B.M.

a. June 2, 1849.
b. *Shagalion, Poole Bay, June* 1850.

7. NITZSCHIA LINEARIS, i. 39. t. 13. f. 110, Supp. t. 31. f. 110; ii. 89. B.M.

a. Winterbourne, Lewes, July 10, 1852.
b. Kenston, Nov. 30, 1852.
Var. β. ? *c.* "*Nitzschia media,*" Derbyshire, *Dr. Redfern.*
d, e. *Lewes, July* 1852; two specimens.
f. *N. media, Walton, Derbyshire.*

8. NITZSCHIA TENUIS, i. 40. t. 13. f. 111. B.M.

a. Lewes, Oct. 23, 1852.
b. *Lewes, March* 1850.

§ III.

9. NITZSCHIA SPATHULATA, i. 40. Supp. t. 31. f. 268. B.M.

a. *Calvados, De Brébisson, Sept.* 1852.

10. NITZSCHIA ANGULARIS, i. 40. t. 13. f. 117. B.M.

a. Sussex, July 1850.
b. *Sussex, July* 1850.

11. NITZSCHIA LANCEOLATA, i. 40. t. 14. f. 118. B.M.

a. Pevensey, Nov. 7, 1850.
b. *Pevensey, Nov.* 1850.
c. *Seaford, Sussex, April* 1854.
d. *Lancing, Sussex, Nov.* 1852.

§ IV.

12. NITZSCHIA AMPHIOXYS, i. 41. t. 13. f. 105. B.M.

a. Near Lewes, Jan. 21, 1852.
b. *Lewes, Jan.* 1851.

13. NITZSCHIA VIVAX, i. 41. Supp. t. 31. f. 267. B.M.

a. Beddington near Lewes, Sept. 27, 1852.
b. *Lewes, Oct.* 1852.

14. NITZSCHIA PARVULA, i. 41. t. 13. f. 106. B.M.

a. Nov. 16, 1849.
b. *Poole, Nov.* 1849.

15. NITZSCHIA MINUTISSIMA, i. 41. t. 13. f. 107. B.M.

a. Beachey Head, Sussex.
b. *Beachey Head, Sussex, Nov.* 1852.

§ V.

16. NITZSCHIA DUBIA, i. 41. t. 13. f. 112, t. 14. f. 112; *β.* Supp. t. 31. f. 112 *β.* B.M.

a. Newhaven, Dec. 3, 1852.
b. Nov. 1853.
c. *Oct.* 1851.
d. *Queen's Park, Edinburgh, April* 1854.
e. *Newhaven, Sussex, Dec.* 1852.

17. NITZSCHIA BILOBATA, i. 42. t. 15. f. 113. B.M.

a. March 4, 1849.
b. *Shoreham, Sussex, Nov.* 1852.

18. NITZSCHIA PLANA, i. 42. t. 15. f. 114. B.M.

a. Shagalion Marsh, June 23, 1849.
b. *Poole Bay, June* 1849.

19. NITZSCHIA PALEA. ii. 89. B.M.

§ VI. *Ceratoneis.*

20. NITZSCHIA BIROSTRATA, i. 42. t. 14. f. 119. B.M.
a. Walton, 1852.

21. NITZSCHIA CLOSTERIUM, i. 42. t. 15. f. 120. B.M.
a. Hove, Sussex.
b. Wareham, Dorset, Dec. 1849.
c. Sea, Dorset, Sept. 1853.
d. Sussex, May 1851.

22. NITZSCHIA REVERSA, i. 43. t. 15. f. 121. B.M.
a. Lewes, Sept. 1852.

23. NITZSCHIA ACICULARIS, i. 43. t. 15. f. 122. B.M.
a. Lewes, May 1852.
b. Lewes, May 1853.

24. NITZSCHIA TÆNIA, i. 43. t. 15. f. 123. B.M.
a. Lewes, 1852.
b. Itford, Sussex, Nov. 1853.
c. Lewes, Sept. 1851.

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25. "NITZSCHIA GREGORII." B.M.
a. Cork Harbour, July 1855.

17. AMPHIPRORA, *Smith,* i. 43.

1. AMPHIPRORA ALATA, i.44.t.15.f.124; Front. i.f.cxxiv. B.M.
a. Coast of Sussex.
b. Poole Bay, June 1849.
c. Sussex, April 1850.
d. Lymington, Hants, Sept. 1854.

2. AMPHIPRORA PALUDOSA, i. 44. Supp. t. 31. f. 269. B.M.
a. Lewes, Sept. 1852.
b. City Park, Cork, April 1855.

3. AMPHIPRORA DIDYMA, i. 44. t. 15. f. 125. B.M.
a. Lytham, Lancashire, Sept. 1849.

4. Amphiprora vitrea, i. 44. Supp. t. 31. f. 270. B.M.
   a. Hove, Sept. 13, 1852.
   b. *Shoreham, Sussex, Sept.* 1852.

5. Amphiprora constricta, i. 44. t. 15. f. 126. B.M.
   a. *Sussex, April* 1850.
   b. *Seaford, Sussex, April* 1854.

6. Amphiprora elegans, ii. 90. B.M.
   a. Harwich, *W. K. B.* (*Mr. Bleakeley*), 28, 9, 53.

18. AMPHIPLEURA, *Smith*, i. 48.

1. Amphipleura pellucida, i. 45. t. 15. f. 127. B.M.
   a. Bristol, *Mr. Thwaites*, 1848.
   b. *Lewes, Nov.* 1850.
   c. *Bristol, April* 1849.
   d. *Redesdale, Nov.* 1854.

2. Amphipleura sigmoidea, i. 45. t. 15. f. 128. B.M.
   a. Lewes, Sussex, 1852.
   b. *Lancing, Sussex, Nov.* 1852.
   c. *Hove, Sussex, Sept.* 1852.
   d. *Bexhill, Sussex, Sept.* 1850.

3. Amphipleura inflexa, ii. 90.

19. NAVICULA, *Smith*, i. 46.

§ I.

1. Navicula rhomboides, i. 46. t. 16. f. 129, ii. 90. B.M.
   a. Wareham, Dec. 1849.
   Var. *β. b.* Elchies, Bamffshire (*Dr. Gregory*, Aug. 1854).
   c. *Dorset, Sept.* 1849.

2. Navicula lanceolata, i. 46. Supp. t. 31. f. 272. B.M.
   a. Newhaven, Dec. 9, 1852.
   b. *Newhaven, Sussex, Dec.* 1852.

3. NAVICULA CRASSINERVIA, i. 47. Supp. t. 31. f. 271. B.M.
   a. Co. Cork.
   b. *Wareham, Sept.* 1849.

4. NAVICULA SERIANS, i. 47. t. 16. f. 130. B.M.
   a. Wareham, Dec. 1849.
   b. *Sussex, Aug.* 1853.

5. NAVICULA CUSPIDATA, i. 47. t. 16. f. 131. B.M.
   a. Lewes.
   b. *Lewes, Sept.* 1850.

6. NAVICULA RHYNCHOCEPHALA, i. 47. t. 16. f. 132. B.M.
   a. *Dr. Dickie,* Dec. 1851.

§ II.

7. NAVICULA LIBER, i. 48. t. 16. f. 133. B.M.
   a. Pevensey, Sept. 10, 1851.
   b. *Cumbrae, Feb.* 1854.

8. NAVICULA FIRMA, i. 48. t. 16. f. 134, ii. 90. B.M.
   a. Brooks near Lewes, Oct. 23, 1852.
   Var. *β. b.* Lough Mourne Deposit.

9. NAVICULA ELLIPTICA, i. 48. t. 17. f. 152; Front. i. f. clii; ii. 92. B.M.
   a. Wareham, June 5, 1849.
   b. *Dorset, Sept.* 1850.

10. NAVICULA OVALIS, i. 48. t. 17. f. 153. B.M.
   a. Larnes.
   b. *J. R. Capron,* Nov. 5, 1852.

11. NAVICULA MINUTULA, i. 48. Supp. 31. f. 274. B.M.
   a. Itford, Oct. 23, 1852.
   b. *Lewes, Oct.* 1852.

§ III.

12. NAVICULA JENNERII, i. 49. t. 16. f. 134. B.M.
   a. Shoreham, June 7, 1850.
   b. *Sussex, Feb.* 1852.

13. NAVICULA WESTII, i. 49. t. 16. f. 135. B.M.
   a. Newhaven, Dec. 9, 1852.
   b. Shoreham, June 7, 1851.
   c. *May* 1852.

14. NAVICULA CONVEXA, i. 49. t. 16. f. 136; Front. i. f. cxxxvi. B.M.
   a. Coast of Sussex.
   b. *Sussex, Sept.* 1851.

15. NAVICULA ELEGANS, i. 49. t. 16. f. 137. B.M.
   a. July 18, 1849.
   b. *Poole Bay, Jan.* 1849.

16. NAVICULA PATULA, i. 49. t. 16. f. 139. B.M.
   a. Marl, co. Down, *Mr. M'Adam.*
   b. Belfast, Aug. 28, 1849.

17. NAVICULA PALPEBRALIS, i. 50. Supp. t. 31. f. 273. B.M.
   a. The Clyde, *Dr. Arnott.*

§ IV.

18. NAVICULA OBTUSA, i. 50. t. 16. f. 140. B.M.
   a. Raasay Earth.

19. NAVICULA SEMEN, i. 50. t. 16. f. 141. B.M.
   a. Peterhead Deposit.

20. NAVICULA AFFINIS, i. 50. t. 16. f. 143. B.M.
   a. Guildford.

21. NAVICULA INFLATA, i. 50. t. 17. f. 158. B.M.
   a. Near Lewes, Sussex.

22. NAVICULA GIBBERULA, i. 51. t. 17. f. 160. B.M.
   a. Cantyre (Peat).

§ V.

23. NAVICULA AMPHIRHYNCHUS, i. 51. t. 16. f. 142. B.M.
   a. Lewes, Oct. 20, 1851.

24. NAVICULA PRODUCTA, i. 51. t. 17. f. 144. B.M.

a. East Shalford.

25. NAVICULA AMBIGUA, i. 51. t. 17. f. 149; Front. i. f. cxlix. B.M.

a. Newhaven, Dec. 9, 1852.
b. *Dec.* 1852.

26. NAVICULA AMPHISBÆNA, i. 51. t. 17. f. 147 & f. 147 β; ii. 92. B.M.

a. Lewes, Feb. 8, 1853.
b. Lewes, *Mr. Jenner*, Aug. 15, 1849.
c. Wray, Lancashire, *Mr. G. Smith*, Jan. 1852.
d. Wisbeach.
e. *Wray.*
f. *Lewes, April* 1852.

27. NAVICULA SPHÆROPHORA, i. 51. t. 17. f. 148. B.M.

a. Itford, Oct. 13, 1852.
b. *Lewes, Oct.* 1851.

28. NAVICULA ANGUSTATA, i. 52. t. 17. f. 156. B.M.

a. Raasay Earth, *Dr. Dickie.*

29. NAVICULA TUMENS, i. 52. t. 17. f. 150. B.M.

a. Sussex.
b. *Newhaven, Sussex, Feb.* 1852.

30. NAVICULA PUNCTULATA, i. 52. t. 17. f. 151. B.M.

a. Poole Bay, Sept. 24, 1851.
b. *Seaford, Sussex, Aug.* 1851.

31. NAVICULA PUSILLA, i. 52. t. 17. f. 145. B.M.

a. Lewes, Oct. 1830.
b. *Lewes, Oct.* 1850.

32. NAVICULA TUMIDA, i. 53. t. 17. f. 146. B.M.

a. Guildford, *J. R. Capron, Esq.*, Nov. 4, 1851.

33. NAVICULA DICEPHALA, i. 53. t. 17. f. 157. B.M.

a. Lough Mourne Deposit.

34. NAVICULA CRYPTOCEPHALA, i. 53. t. 17. f. 155. B.M.
   a. Newhaven, Dec. 9, 1852.
   b. *Lewes, Feb.* 1852.

§ VI.

35. NAVICULA DIDYMA, i. 53. t. 17. f. 154; Frontispiece, i. f. cliv. B.M.
   a. Pevensey, Sept. 2, 1850.
   b. *Sussex, July* 1850.

36. NAVICULA BINODIS, i. 53. t. 17. f. 159.

Addenda.

37. NAVICULA PYGMÆA, ii. 91. B.M.
   a. Coast of Sussex.
   b. *Sussex, Nov.* 1853.

38. NAVICULA SCUTELLOIDES, ii. 91.

39. NAVICULA BACILLUM, ii. 91.

40. NAVICULA LÆVISSIMA, ii. 91.

41. NAVICULA PECTINALIS, ii. 91. B.M.
   a. Saltcoats.

42. NAVICULA RETUSA, ii. 92.

43. NAVICULA COCCONEIFORMIS, ii. 92.

44. NAVICULA ROSTELLUM, ii. 93. B.M.
   a. Grassmere (Aug. 1853).

45. NAVICULA HENNEDYII, ii. 93. B.M.
   a. Cumbrae (Jan. 1854, *Mr. R. Hennedy*).

46. NAVICULA LYRA, ii. 93. B.M.
   a. Salt Pans, Hants.

47. NAVICULA HUMEROSA, ii. 93. B.M.
a. Wisbeach (River Nene, Jan. 1854, *Mr. G. Smith*).

48. NAVICULA CRABRO, ii. 94.

49. NAVICULA TRINODIS, ii. 94.

50. NAVICULA PULCHRA, n. s.
a. Harwich.

51. NAVICULA CASSA. B.M.
a. Mr. Jenner.
b. Sussex, Mr. Jenner.

52. NAVICULA PANDORA. B.M.
a. Stomach of a Scallop. (B.)
b. "*N. Pandura.* Stomach of a Scallop."

53. NAVICULA GRANULATA, *Bréb.* B.M.
a. Cumbrae, *Mr. R. Hemedy*, 30, 1, 54.

54. NAVICULA HABITATA. B.M.
a. Dr. Arnott.

55. NAVICULA APICULATA, *Bréb.* B.M.
a. Poole Bay.

20. PINNULARIA, *Smith*, i. 54.

1. PINNULARIA NOBILIS, i. 54. t. 17. f. 161. B.M.
a. Lough Mourne Deposit.
b. Falaise, De Brébisson.

2. PINNULARIA MAJOR, i. 54. t. 17. f. 162. B.M.
a. Peterhead Deposit, *Dr. Dickie*, Aug. 1848.

3. PINNULARIA VIRIDIS, i. 54. t. 18. f. 163; Front. i. f. clxiii. B.M.
a. Feb. 17, 1849.
b. Wareham, Feb. 1848.

4. PINNULARIA ACUMINATA, i. 55. t. 18. f. 164. B.M.
   a. Premnay, *Dr. Dickie*, Aug. 1848.

5. PINNULARIA OBLONGA, i. 55. t. 18. f. 165; Front. i. f. clxv. B.M.
   a. Brooks, Lewes, Oct. 1850.
   b. *Lewes, Oct.* 1852.

6. PINNULARIA CARDINALIS, i. 55. t. 19. f. 166. B.M.
   a. Lough Mourne Deposit.

7. PINNULARIA LATA, i. 55. t. 18. f. 167. B.M.
   a. Fell End, Lancashire, May 29, 1851.

8. PINNULARIA ALPINA, i. 55. t. 18. f. 168. B.M.
   a. Ben McDhui, 3000 feet, *Mr. P. Grant.*
   b. *Aberdeen, Dr. Dickie.*

9. PINNULARIA DISTANS, i. 56. t. 18. f. 169. B.M.
   a. *Dr. Arnott.*
   b. ——. Scallops, Feb. 1852.

10. PINNULARIA PEREGRINA, i. 56. t. 18. f. 170. B.M.
   a. Brooks near Lewes, Feb. 18, 1852.
   b. *Nov.* 1851.

11. PINNULARIA ACUTA, i. 56. t. 18. f. 171. B.M.
   a. Plumpton, March 17, 1852.
   b. *Plumpton, Sussex, March* 1852.

12. PINNULARIA DIRECTA, i. 56. t. 18. f. 172. B.M.
   a. Seaford. March 15, 1852.
   b. *Sussex, Feb.* 1852.

13. PINNULARIA RADIOSA, i. 56. t. 18. f. 173. B.M.
   a. Wray, Lancashire, *Mr. G. Smith*, Jan. 14, 1852.
   b. *Corfe Castle, Dec.* 1849.
   c. *Bexhill, Sussex, Oct.* 1852.
   d. *Belfast, Sept.* 1853.

14. PINNULARIA GRACILIS, i. 57. t. 18. f. 174. B.M.
a. Shalford.

15. PINNULARIA VIRIDULA, i. 57. t. 18. f. 175. B.M.
a. Sheep pool, Kingston, Feb. 26, 1852.
b. *Sussex, Nov.* 1851.

16. PINNULARIA CYPRINUS, i. 57. t. 18. f. 176. B.M.
a. Seaford, Aug. 12, 1851.

17. PINNULARIA DIVERGENS, i. 57. t. 18. f. 177. B.M.
a. Dolgelly Earth.

18. PINNULARIA STAURONEIFORMIS, i. 57. t. 19. f. 178. B.M.
a. Lewes, Jan. 21, 1852.
b. *Lewes, Feb.* 1852.
c. *Rackham, Sussex, Aug.* 1853.

19. PINNULARIA JOHNSONII, i. 58. t. 19. f. 179. B.M.
a. Pilling near Lancaster, *C. Johnson, Esq.*, Feb. 4, 1851.
b. *Hove, Sussex, April* 1854.
c. *Shoreham, Sussex, March* 1851.

20. PINNULARIA GIBBA, i. 58. t. 19. f. 180. B.M.
a. Wareham, Sept. 1847.

21. PINNULARIA TABELLARIA, i. 58. t. 19. f. 181. B.M.
a. South Wales.
b. *Ulverstone, Aug.* 1854.

22. PINNULARIA ACROSPHÆRIA, i. 58. t. 19. f. 183. B.M.
a. Premnay Peat.

23. PINNULARIA MESOLEPTA, i. 58. t. 19. f. 182. B.M.
a. Grassmere.

24. PINNULARIA INTERRUPTA, i. 59. t. 19. f. 184, ii. 96. B.M.
a. Newhaven, Dec. 3, 1852.
b. *Sussex, Dec.* 1852.

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25. PINNULARIA BOREALIS, ii. 94. B.M.
a. Near Grassmere, Aug. 3, 1853.

26. PINNULARIA HEMIPTERA, ii. 95. B.M.
a. Dr. Greville, July 1854.

27. PINNULARIA GRACILLIMA, ii. 95. B.M.
Var. β. *a.* "*P. tenuis.* Mull Deposit."

28. PINNULARIA POLYONCA, ii. 95.

29. PINNULARIA NODOSA, ii. 96. B.M.
a. Elchies, Bamffshire.

30. PINNULARIA INTEGRA, ii. 96. B.M.
a. (Powmouth, Ayrshire), *Dr. Arnott*, July 1854.

31. PINNULARIA EXIGUA, *Greg.* B.M.
a. Itford, Sussex, Feb. 1854.

32. PINNULARIA PARVA. B.M.
a. Mull Deposit.

33. PINNULARIA CONTINUA. B.M.
a. New Forest, Sept. 9, 1854.

21. STAURONEIS, *Smith*, i. 59.

1. STAURONEIS PHŒNICENTERON, i. 59. t. 19. f. 185. B.M.
a. Near Wareham, March 23, 1848.
b. Jersey, Aug. 1852.
c. Wareham, Sept. 1847.

2. STAURONEIS GRACILIS, i. 59. t. 19. f. 186. B.M.
a. Bindon Abbey, Dorset, May 28, 1849.
b. Lancaster, Oct. 1852.
c. Bindon Abbey, Dorset, May 1849.

3. STAURONEIS ACUTA, i. 59. t. 19. f. 187. B.M.
   a. Lough Mourne, co. Antrim.
   b. Near Guildford, *J. H. Capron, Esq.*, Nov. 5, 1852.
   c. *Guildford, Nov.* 1852.

4. STAURONEIS SALINA, i. 60. t. 19. f. 188. B.M.
   a. Shoreham, Aug. 12, 1851.
   b. *Shoreham, Sussex, Aug.* 1851.
   c. *Lancing, Sussex, July* 1854.

5. STAURONEIS DILATATA, i. 60. t. 19. f. 191.

6. STAURONEIS CRUCICULA, i. 60. t. 19. f. 192.

7. STAURONEIS ANCEPS, i. 60. t. 19. f. 190. B.M.
   a. Lewes, Oct. 1852.

8. STAURONEIS LINEARIS, i. 60. t. 19. f. 193. B.M.
   a. (Shalford), *J. R. Capron, Esq.*, Nov. 5, 1852.

9. STAURONEIS PUNCTATA, i. 61. t. 19. f. 189. B.M.
   a. *Dr. Dickie.*

10. STAURONEIS PULCHELLA, i. 61. t. 19. f. 194. B.M.
   a. Hove, Aug. 19, 1851.
   b. Hove, Sussex, Aug. 1850.
   c. *Sussex, Aug.* 1850.
   d. *Seaford, Sussex, Oct.* 1853.
   e. *Newhaven, Sussex, Aug.* 1854.

11. STAURONEIS RECTANGULARIS, *Greg.* B.M.
   a. Lewes, March 1853.

22. PLEUROSIGMA, *Smith*, i. 61.

I. *Striæ oblique.*

1. PLEUROSIGMA FORMOSUM, i. 63. t. 20. f. 195; Front. i. f. cxcv. B.M.
   a. Hove, Aug. 19, 1850.
   b. With *P. speciosum*, Salt Pans, Hants, Sept. 1854.
   c. *Shoreham, Sussex, Aug.* 1850.

2. PLEUROSIGMA DECORUM, i. 63. t. 21. f. 196. B.M.

a. Ipswich, *Mr. Hodgson*, Aug. 1851.
b. Ipswich, *Mr. Hodgson*, Aug. 1851.

3. PLEUROSIGMA SPECIOSUM, i. 63. t. 20. f. 197. B.M.

a. Walton, Essex, *Mr. Topping.*
b. Walton, Essex, *Mr. Topping.*
c. Salt Pans, Hants, Sept. 1854.

4. PLEUROSIGMA RIGIDUM, i. 64. t. 20. f. 198. B.M.

a. Ipswich, *Mr. Hodgson*, Aug. 1851.

5. PLEUROSIGMA ELONGATUM, i. 64. t. 20. f. 199. B.M.

a. Poole Bay, June 23, 1849.
b. Poole, June 1849.

6. PLEUROSIGMA INTERMEDIUM, i. 64. t. 20. f. 200. B.M.

a. Seaford, March 15, 1852.
b. Newhaven, Sussex, March 1852.

7. PLEUROSIGMA NUBECULA, i. 64. t. 20. f. 201. B.M.

a. Seaford, April 19, 1852.
b. Sussex, March 1852.

8. PLEUROSIGMA DELICATULUM, i. 64. t. 20. f. 202. B.M.

a. Brooks near Lewes, Sept. 1850.
b. Lewes, Oct. 1850.

9. PLEUROSIGMA STRIGOSUM, i. 64. t. 21. f. 203. B.M.

a. Lancing, Sussex, Nov. 19, 1852.
b. Sussex, Aug. 1850.
c. Lancing, Sussex, Aug. 1852.
d. Seaford, Sussex, March 1852.

10. PLEUROSIGMA QUADRATUM, i. 65. t. 20. f. 204. B.M.

a. Poole Bay, June 11, 1849.
b. Sussex, Aug. 1850.

11. PLEUROSIGMA ANGULATUM, i. 65. t. 20. f. 205. B.M.

a. Lancing, Aug. 27, 1852.
b. *Belfast, Aug.* 1849.
c. *Poole Bay, Aug.* 1849.
d. *Carrickfergus, Aug.* 1849.
e. *Pevensey, Sept.* 1851.
f. *Itford, Sussex, April* 1852.
g. *Lancing, Sussex, Aug.* 1852.
h. *Seaford, Sussex, Dec.* 1852.
i. *Galway, July* 1853.
j. *Pevensey, Aug.* 1853.
k. *Var. Hove, Sussex, Oct.* 1853.
l. *Newhaven, Sussex, Feb.* 1854.
m. *Southease, Sussex, Aug.* 1854.
β. *rude. Shoreham, Sussex, April* 1854.
γ. *gracile. Granton, near Edinburgh, June* 1854.

12. PLEUROSIGMA ÆSTUARII, i. 65. Supp. t. 31. f. 275. B.M.

a. Hove, Sussex, Nov. 1852.

13. PLEUROSIGMA OBSCURUM, i. 65. t. 20. f. 206. B.M.

a. Lewes, Sept. 1850.
b. *Magalieu, Poole Bay, June* 1849.
c. *Lewes,* 1850.
β. *d. Poole Bay, Nov.* 1849.

II. *Striæ transverse and longitudinal.*

14. PLEUROSIGMA BALTICUM, i. 66. t. 22. f. 207; Front. i. f. ccvii. B.M.

a. Lancing, Aug. 27, 1852.
b. *Sussex, Oct.* 1850.
γ. *c. Oct.* 1851.

15. PLEUROSIGMA STRIGILIS, i. 66. t. 22. f. 208. B.M.

a. Hull, *Mr. Harrison,* Nov. 12, 1850.
b. *Itford, Sussex, Oct.* 1852.

16. PLEUROSIGMA ACUMINATUM, i. 66. t. 21. f. 209. B.M.

a. Shoreham Harbour.
b. Higham, *Mr. Shadbolt.*
c. *Shoreham, Sussex. June* 1850.
d. *Shoreham, Sussex, June* 1850.

17. Pleurosigma distortum, i. 67. t. 20. f. 210. B.M.
a. Sussex, Aug. 1850.

18. Pleurosigma Fasciola, i. 67. t. 21. f. 211. B.M.
a. Hastings, Nov. 11, 1851.
b. Hastings, Nov. 1851.

19. Pleurosigma macrum, i. 67. Supp. t. 31. f. 276. B.M.
a. Itford, Sussex, Sept. 27, 1852.
b. Itford, Sussex, Oct. 1852.

20. Pleurosigma prolongatum, i. 67. t. 22. f. 212. B.M.
a. Shoreham, Sussex, Sept. 1852.
b. Shoreham, 1852.

21. Pleurosigma tenuissimum, i. 67. t. 22. f. 213.

22. Pleurosigma littorale, i. 67. t. 22. f. 214. B.M.
a. Pevensey, Nov. 7, 1850.
b. Sussex, Nov. 1850.

23. Pleurosigma Hippocampus, i. 68. t. 22. f. 215. B.M.
a. Lewes, Sept. 1850.
b. Lewes, Sept. 1850.

24. Pleurosigma attenuatum, i. 68. t. 22. f. 216. B.M.
a. Dorchester, May 28, 1849.
b. Plumpton, April 18, 1852.
c. Plumpton, Sussex, April 1851.

25. Pleurosigma lacustre, i. 68. t. 21. f. 217. B.M.
a. Brooks, Lewes, Sept. 1850.
b. Lewes, Oct. 1851.

26. Pleurosigma Spencerii, i. 68. t. 22. f. 218. B.M.
a. (Reading), *Mr. Poulton.*
b. Lewes, Sept. 1850.

III. *Gyrosigma.*

27. Pleurosigma transversale, ii. 97. B.M.
a. Pleurosigma Naviculaceum. Stomach of a Scallop, Feb. 1854.

Subtribe 2. SYNEDREÆ.

23. SYNEDRA, *Smith*, i. 69.

§ I.

1. SYNEDRA LUNARIS, i. 69. t. 11. f. 82. B.M.
   a. Kingston. Jan. 19, 1853.
   b. *Lewes, Nov.* 1852.

2. SYNEDRA BICEPS, i. 69. t. 11. f. 83. B.M.
   a. Wareham, Dec. 4, 1849.
   b. *Dorset, Dec.* 1849.

§ II.

3. SYNEDRA PULCHELLA, i. 70. t. 11. f. 84, Supp. t. 30. f. 84*. B.M.
   a. *Mr. Ralfs*, Jan. 1852.
   b. *Penzance, Mr. Ralfs.*

4. SYNEDRA GRACILIS, i. 70. t. 11. f. 85; Front. i. f. lxxxv. B.M.
   a. Lewes, April 1850.
   b. *Lewes, April* 1851.

5. SYNEDRA ACICULARIS, i. 70. t. 11. f. 86. B.M.
   a. *Sussex, March* 1850.

6. SYNEDRA MINUTISSIMA, i. 70. t. 11. f. 87. B.M.
   a. *Lewes, Oct.* 1850.

§ III.

7. SYNEDRA SALINA, i. 71. t. 11. f. 88.

8. SYNEDRA RADIANS, i. 71. t. 11. f. 89, t. 12. f. 89; Front. i. f. lxxxix. B.M.
   a. Lewes, May 1851.
   b. Winterbourne near Lewes, March 5, 1851.
   c. *Plumpton, Sussex, April* 1852.

9. SYNEDRA ULNA, i. 71. t. 11. f. 90, 90 β. B.M.
   a. St. Brelade, Jersey, Aug. 1852.
   b. *St. Brelade, Jersey, Aug.* 1852.

10. SYNEDRA OXYRHYNCHUS, i. 71. t. 11. f. 91.

11. SYNEDRA OBTUSA, i. 71. t. 11. f. 92. B.M.
a. Lewes, Feb. 1852.
b. *Lewes, Feb.* 1852.

12. SYNEDRA CAPITATA, i. 72. t. 12. f. 93. B.M.
a. Brooks near Lewes, March 15, 1853.
b. Lakes near Wareham, Sept. 4, 1847.
c. *Wareham, Sept.* 1843.

13. SYNEDRA DELICATISSIMA, i. 72. t. 12. f. 94. B.M.
a. *Dr. Dickie,* Dec. 1851.

14. SYNEDRA LONGISSIMA, i. 72. t. 12. f. 95. B.M.
a. Ponds, Botanic Garden, Belfast, *Dr. Dickie,* 1851.
b. *Belfast, Dr. Dickie.*

15. SYNEDRA TABULATA, i. 72. t. 12. f. 96. B.M.
a. Brooks, Lewes, Sept. 1, 1851.
b. *Lewes, Sept.* 1851.

16. SYNEDRA AFFINIS, i. 73. t. 12. f. 97. B.M.
a. Pevensey, *Mr. Dangerfield,* April 1851.
b. *Pevensey, Sussex, April* 1851.

17. SYNEDRA ARCUS, i. 73. t. 11. f. 98, t. 12. f. 98. B.M.
a. Cuckmere, Sussex.
b. *Cuckmere, Sussex, March* 1851.

18. SYNEDRA HAMATA, i. 73. Supp. t. 30. f. 264. B.M.
a. Plumpton, April 28, 1852.
b. *Plumpton, Sussex, April* 1852.

19. SYNEDRA VAUCHERIÆ, i. 73. t. 11. f. 99. B.M.
a. Lewes, Oct. 1850.
b. *Lewes, Oct.* 1851.

20. SYNEDRA FASCICULATA, i. 73. t. 11. f. 100. B.M.
a. Plumpton, Sussex, 1852.
b. *Sussex, April* 1852.

§ IV.

21. SYNEDRA CRYSTALLINA, i. 74. t. 12. f. 101. B.M.
a. Poole Bay, Sept. 24, 1851.

22. SYNEDRA SUPERBA, i. 74. t. 12. f. 102. B.M.

a. Poole Bay, Sept. 24, 1851.
b. *Poole Bay, Nov.* 1849.

23. SYNEDRA GALLIONI, i. 74. Supp. t. 30. f. 265 & 265 β. B.M.

a. Isle of Man, *Charles Johnson*, June 2, 1852.
b. Beachey Head, Aug. 30, 1852.
c. *Isle of Man.*
β. *d.* *Beachey Head, Aug.* 1852.

24. SYNEDRA FULGENS, i. 74. t. 12. f. 103. B.M.

a. Poole Bay, Sept. 24, 1851.
b. Jersey, Aug. 8, 1852.
c. *Jersey, Aug.* 1852.

Addenda.

25. SYNEDRA UNDULATA, ii. 97. B.M.

a. Cork Harbour.

26. SYNEDRA DEFORMIS, ii. 98. B.M.

a. Pills near Lewes (March 1853).
b. *Lewes, March* 1853.

27. SYNEDRA INVESTIENS, ii. 98. B.M.

a. Kirkaldy, Fifeshire, *Dr. Greville*, March 1854.
b. *Kinghorn, Fife, March* 1854.

28. SYNEDRA TENERA, ii. 98.

29. SYNEDRA FIBULA. B.M.

a. Rackham, Sussex.

24. COCCONEMA, *Smith*, i. 75.

1. COCCONEMA LANCEOLATUM, i. 75. t. 23. f. 219; Front. i. f. ccxix. B.M.

a. Wareham, 1847.
b. *Dorset, March* 1847.

2. COCCONEMA CYMBIFORME, i. 76. t. 23. f. 220. B.M.

a. Wareham : rare : 1848.
b. *North Wales, Dec.* 1842.
c. *Cumbrae, Feb.* 1854.
d. *Bristol.*

3. Cocconema Cistula, i. 76. t. 23. f. 221, t. 24. f. 221; Front. i. f. ccxxi. B.M.

a. Berwick Common, Sussex, May 16, 1850.
b. *Co. Galway, July* 1853.
c. *Berwick, Sussex, May* 1850.
d. *Wray, Lancashire, Dec.* 1850.
e. *Lewes, March* 1850.

4. Cocconema parvum, i. 76. t. 23. f. 222, t. 24. f. 222. B.M.

a. Beachey Head, Aug. 3, 1850.
b. *Beachey Head. Aug.* 1850.
c. *Co. Galway, July* 1853.

25. DORYPHORA, *Smith*, i. 77.

1. Doryphora Boeckii, i. 77. t. 24. f. 223. B.M.

a. Poole Bay, Feb. 21, 1849.
b. *Poole Bay, March* 1849.

2. Doryphora Amphiceros, i. 77. t. 24. f. 224. B.M.

a. Ipswich.
b. *Podosphenia elegans*, and *D. elegans*?

26. GOMPHONEMA, *Smith*, i. 77.

§ I.

1. Gomphonema geminatum, i. 78. t. 27. f. 235; Front. i. f. ccxxxv. B.M.

a. Co. Cork, May 1855.
b. Tonnabrick Mountain, co. Galway.
c. Haverfordwest, May 5, 1854.
d. *Grassmere, Aug.* 1853.
e. *River Lee, Cork, April* 1855.
f. *Dolgelly, Mr. Ralfs.*
g. *Co. Galway, July* 1853.

2. Gomphonema constrictum, i. 78. t. 28. f. 236. B.M.

a. Lewes, April 1851.
b. *Lewes, May* 1850.

3. Gomphonema acuminatum, i. 79. t. 28. f. 238. B.M.

a. Lewes, Feb. 8, 1853.
b. *Lewes, Nov.* 1851.
c. *Var.* γ. *Lewes, Feb.* 1853.
d. *Var.* γ. *Lewes, Jan.* 1854.

4. GOMPHONEMA CRISTATUM, i. 79. t. 28. f. 239; Front. i. f. ccxxxix. B.M.

a. Pond, St. James's Park, *Mr. Shadbolt*, Jan. 1852.
b. *Farnham, Mr. Jenner, July* 1843.
c. *Farnham, Mr. Jenner, July* 1844.

5. GOMPHONEMA DICHOTOMUM, i. 79. t. 28. f. 240; Front. i. f. ccxl. B.M.

a. Penzance.
b. *Penzance, Mr. Ralfs.*
c. *Falaise, M. De Brébisson.*

6. GOMPHONEMA TENELLUM, i. 80. t. 29. f. 243. B.M.

a. Wray, *Mr. G. Smith*, Nov. 2, 1853.
b. *Lewes, Sept.* 1850.

7. GOMPHONEMA CAPITATUM, i. 80. t. 28. f. 237, ii. 99. B.M.

a. Brooks near Lewes, March 11, 1853.
b. Itford near Lewes, Sussex, Nov. 1853.
c. *Var. β. Itford, Sussex, Nov.* 1853.
d. *Lewes, May* 1850.

8. GOMPHONEMA OLIVACEUM, i. 80. t. 29. f. 244. B.M.

a. Wareham, Jan. 1849.
b. *Bristol, March* 1849.
c. *River Frome, Dorset, Nov.* 1849.
d. *Sussex, Feb.* 1852.
e. *Landport, Sussex, April* 1852.
f. *Plumpton, Sussex, April* 1852.
g. *Kingston, Sussex, April* 1852.
h. *Paper-mill Pond, Cork, March* 1853.
i. *Duddingston near Edinburgh, March* 1854.

9. GOMPHONEMA INTRICATUM, i. 80. t. 29. f. 241. B.M.

a. Beachey Head, Aug. 23, 1850.
b. *Beachey Head, Aug.* 1850.

10. GOMPHONEMA VIBRIO, i. 81. t. 28. f. 242. B.M.

a. *Dr. Dickie.*

§ II.

11. GOMPHONEMA ? CURVATUM, i. 81. t. 29. f. 245. B.M.

a. Shoreham, Kent, *Ed. Jenner.*
b. Carrickfergus, Aug. 1, 1849.
c. *Belfast, Aug.* 1849.

12. GOMPHONEMA? MARINUM, i. 81. t. 29. f. 246. B.M.
a. Cuckmere, Sussex, March 15, 1852.
b. *Sussex, Oct.* 1851.

13. GOMPHONEMA NAVICULOIDES, ii. 98. B.M.
a. Botanic Garden, Edinburgh.
b. *Botanic Garden, Edinburgh, Aug.* 1853.

14. GOMPHONEMA VENTRICOSUM, ii. 99. B.M.
a. River Spey, July 1854, *Dr. Gregory.*

15. GOMPHONEMA ELONGATUM, ii. 99. B.M.
a. Wisbeach, April 1854.

16. GOMPHONEMA ROSTRATUM, ii. 99. B.M.
a. Barley Lake, co. Cork.

17. GOMPHONEMA SARCOPHAGUS, ii. 99.

18. GOMPHONEMA INSIGNE, ii. 100.

19. GOMPHONEMA FIBULA, ii. 100. B.M.
a. *Rackham, Sussex, Aug.* 1853.

20. GOMPHONEMA SUBTILE, ii. 100.

21. GOMPHONEMA CLAVUS?, *Greg.* B.M.
a. Lough Avaul, co. Cork.

22. GOMPHONEMA DICHOTOMUM γ. B.M.
a. Duddingston Lough.

26*. PODOCYSTIS, *Smith*, ii. 101.

1. PODOCYSTIS AMERICANA, ii. 101.

27. PODOSPHENIA, *Smith*, i. 82.

1. PODOSPHENIA EHRENBERGII, i. 82. t. 24. f. 225. B.M.
a. Torbay, *Mrs. Griffiths*, 1849.
b. *Torbay, Mrs. Griffiths.*

2. PODOSPHENIA OVATA, i. 83. t. 24. f. 226. B.M.
   a. Shoreham, Aug. 1850.

3. PODOSPHENIA LYNGBYEI, i. 83. t. 24. f. 227.

4. PODOSPHENIA JURGENSII, i. 83. t. 25. f. 228. B.M.
   a. Beachey Head.

5. PODOSPHENIA GRACILIS, i. 83. t. 24. f. 229. B.M.
   a. Jersey, Aug. 1852.

6. PODOSPHENIA ELEGANS, n. s. B.M.
   a. Doryphora elegans? Pembroke Harbour.

28. RHIPIDOPHORA, *Smith*, i. 84.

1. RHIPIDOPHORA PARADOXA, i. 84. t. 25. f. 231. B.M.
   a. Jersey, Aug. 1852.

2. RHIPIDOPHORA ELONGATA, i. 84. t. 25. f. 232. B.M.
   a. Torquay, April 1853.
   b. Clifton, Galway, July 1853.
   c. Frith of Forth, Dr. Greville.

3. RHIPIDOPHORA DALMATICA, i. 84. t. 25. f. 230. B.M.
   a. Beachey Head, July 1850.

29. LICMOPHORA, *Smith*, i. 85.

1. LICMOPHORA SPLENDIDA, i. 86. t. 26. f. 233, Supp. t. 32. f. 233. B.M.
   a. Appin, Dr. Carmichael.

2. LICMOPHORA FLABELLATA, i. 86. t. 26. f. 234, Supp. t. 32. f. 234; Front. i. f. ccxxxiv. B.M.
   a. Poole, Sept. 1851.
   b. Torquay, 1846.

Subtribe 3. BACILLARIEÆ.

30. MERIDION, *Smith*, ii. 5.

1. MERIDION CIRCULARE, ii. 6. t. 32. f. 277. B.M.
   a. Winterbourne, Lewes, May 17, 1851.
   b. Colin Glen, Belfast.
   c. *Lulworth, Dorset, May* 1849.
   d. *Lewes, March* 1853.
   e. *Lewes, Sussex, April* 1850.
   f. *Aberdeenshire, Dr. Dickie, Sept.* 1847.
   g. *River Lee, Cork, April* 1855.

2. MERIDION CONSTRICTUM, ii. 7. t. 32. f. 278. B.M.
   a. Grassmere.
   b. *Tunbridge Wells, Mr. Jenner, April* 1843.
   c. *Var. β & γ. Grassmere, July* 1852.
   d. *Tunbridge Wells, Mr. Jenner, April* 1843.
   e. *Falaise, M. De Brébisson.*

31. BACILLARIA, *Smith*, ii. 8.

1. BACILLARIA PARADOXA, ii. 10. t. 32. f. 279, Supp. t. 60. f. 279. B.M.
   a. Lewes, Aug. 1850.
   b. *Wareham, Sept.* 1849.
   c. *Lewes, Aug.* 1852.
   d. *Lewes, Aug.* 1850.
   e. *Sussex, Oct.* 1852.
   f. *Sussex, Nov.* 1853.

32. HIMANTIDIUM, *Smith*, ii. 10.

§ I.

1. HIMANTIDIUM PECTINALE, ii. 12. t. 32. f. 280. B.M.
   a. Wareham, March 1848.
   b. Cooksbridge, Sussex, Jan. 1853.
   c. *Cooksbridge, Sussex, Jan.* 1853.
   d. *Tunbridge Wells, Oct.* 1844.
   e. *Falaise, M. De Brébisson.*

2. HIMANTIDIUM UNDULATUM, ii. 12. t. 33. f. 281. B.M.
   a. Newcastle, co. Down.
   b. *Maam, Galway, July* 1853.

3. HIMANTIDIUM SOLEIROLII, ii. 13. t. 33. f. 282, t. 35. f. 282 *f'*. B.M.

a. Tunbridge Wells, *Mr. Jenner.*
b. *Tunbridge Wells, Mr. Jenner, Dec.* 1842.

§ II.

4. HIMANTIDIUM ARCUS, ii. 13. t. 33. f. 283, Supp. t. 60. f. 283. B.M.

a. Wareham, Sept. 1850.
b. *Rackham, Sussex, Aug.* 1853.
c. *Falaise, M. De Brébisson.*

5. HIMANTIDIUM BIDENS, ii. 13. t. 33. f. 284. B.M.

a. Mull Deposit.

6. HIMANTIDIUM GRACILE, ii. 14. t. 33. f. 285. B.M.

a. Lough (Mourne), *J. Reeves,* July 1839.

7. HIMANTIDIUM MAJUS, ii. 14. t. 33. f. 286; Var. β, Supp. t. 60. f. 286 β. B.M.

a. Gap of Dunloe, Killarney, July 1855.
b. Var. β. Mull Deposit.
c. *Gap of Dunloe, Killarney, July* 1855.

§ III.

8. HIMANTIDIUM ? WILLIAMSONII, ii. 14. t. 33. f. 287. B.M.

a. Isle of Skye.

33. ODONTIDIUM, *Smith,* ii. 15.

1. ODONTIDIUM HYEMALE, ii. 15. t. 34. f. 289. B.M.

a. Dolgelly.
b. *Dolgelly, Mr. Ralfs,* 1843.
c. *Pentland Hills, Aug.* 1854.

2. ODONTIDIUM MESODON, ii. 16. t. 34. f. 288. B.M.

a. Grassmere.
b. *Grassmere, Aug.* 1853.
c. *Aberdeen, Dr. Dickie,* 1848.

3. ODONTIDIUM ANOMALUM, ii. 16. Supp. t. 61. f. 376. B.M.
   a. Braemar (Aug. 1854, *Dr. Balfour*).

4. ODONTIDIUM MUTABILE, ii. 17. t. 34. f. 290. B.M.
   a. Plumpton, Sussex, *Miss Hodgson*, Nov. 1854.
   b. *Plumpton, Sussex, March* 1851.
   c. *Ulverstone, Nov.* 1854.

5. ODONTIDIUM TABELLARIA, ii. 17. t. 34. f. 291. B.M.
   a. Horning, Norfolk.
   b. *Ormesby, Aug.* 1853.
   c. *Plumpton, Sussex, April* 1851.

6. ODONTIDIUM ? HARRISONII, ii. 18. Supp. t. 60. f. 373; β, t. 60. f. 374. B.M.
   a. Hull, Jan. 1852.
   b. Burnham, Norfolk, Jan. 1851.
   c. *Hull, Jan.* 1854.

7. ODONTIDIUM ? PARASITICUM, ii. 19. Supp. t. 60. f. 375. B.M.
   a. Queen's Park, Edinburgh.
   b. *Queen's Park, Edinburgh, April* 1854.

34. DENTICULA, *Smith*, ii. 19.

1. DENTICULA OBTUSA, ii. 19. t. 34. f. 292. B.M.
   a. Aberdeen, *Dr. Dickie*, 1848.
   b. Penzance.
   c. *Penzance, Mr. Ralfs.*
   d. *Braemar, Sept.* 1854.
   e. *Ayrshire, Dr. Landsborough, May* 1853.

2. DENTICULA TENUIS, ii. 20. t. 34. f. 293. B.M.
   a. Larne, July 1853.
   b. *Larne, July* 1853.

3. DENTICULA INFLATA, ii. 20. t. 34. f. 294. B.M.
   a. Beachey Head, Aug. 30, 1852.
   b. *Beachey Head, Aug.* 1852.

4. DENTICULA OCELLATA, ii. 20.

5. DENTICULA SINUATA, ii. 21. t. 34. f. 295. B.M.

a. Wray, *Mr. G. Smith*, Oct. 1851.
b. *Dryburgh, March* 1854.

35. FRAGILARIA, *Smith*, ii. 21.

1. FRAGILARIA CAPUCINA, ii. 22. t. 35. f. 296. B.M.

a. Lewes.
b. *Lewes, Nov.* 1851.

2. FRAGILARIA VIRESCENS, ii. 22. t. 35. f. 297. B.M.

a. Tunbridge Wells.
b. Fell End near Lancaster, *C. Johnson, Esq.*, May 29, 1851.
c. (Haverfordwest), *Mr. Okeden*, April 1857.
d. *Passage, co. Cork, Aug.* 1855.
e. β. *Ashdown Forest, Mr. Jenner*, 1844.
f. *Aberdeen, Dr. Dickie.*
g. *Tunbridge Wells, Dec.* 1842.

3. FRAGILARIA STRIATULA, ii. 23. t. 35. f. 299. B.M.

a. Sussex, Sept. 1852.
b. *Sussex, April* 1852.

4. FRAGILARIA UNDATA, ii. 24. Supp. t. 60. f. 377. B.M.

a. Mull Deposit.
b. *River Mortes, Mont Dore, June* 1859.

36. EUCAMPIA, *Smith*, ii. 25.

1. EUCAMPIA ZODIACUS, ii. 25. t. 35. f. 299, Supp. t. 60. f. 299. B.M.

a. Stomach of Scallops.

2. EUCAMPIA BRITANNICA, ii. 25. Supp. t. 61. f. 378.

37. ACHNANTHES, *Smith*, ii. 25.

1. ACHNANTHES LONGIPES, ii. 26. t. 35. f. 300, t. 36. f. 300. B.M.

a. Poole Bay, July 1849.
b. Southampton, *Mr. Jenner*, 1844.
c. *Poole Bay, July* 1849.
d. *Newhaven, Sussex, Oct.* 1853.

Var. β. t. 36. f. 300 β.
e. Seaford, Sussex, April 1851.
f. *Seaford, March* 1852.

Var. γ. t. 36. f. 300 γ.
g. Newhaven.
h. *Newhaven, Mr. Jenner, July* 1843.

2. ACHNANTHES BREVIPES, ii. 27. t. 37. f. 301 & 301 β. B.M.
a. Lancing, Sussex, Aug. 1852.
b. *Mr. Ralfs.*
c. Bexhill, Sussex, Oct. 1852.
d. *Bexhill, Sussex, Oct.* 1852.
e. *Lancing, Sussex, Aug.* 1852.
f. *Pevensey, Sussex, Sept.* 1850.
g. *Beachey Head, Sussex, April* 1852.
h. *Shoreham, Sussex, July* 1840.
i. *Lancing, Sussex, Mr. Jenner,* 1843.

3. ACHNANTHES SUBSESSILIS, ii. 28. t. 37. f. 302. B.M.
a. Lewes, Oct. 16, 1851.
b. *Lewes, Oct.* 1851.
c. *Mr. Ralfs.*

4. ACHNANTHES EXILIS, ii. 29. t. 37. f. 303. B.M.
a. Wray, Lancashire.
b. *Grassmere, Aug.* 1852.
c. *Edgeley, Cheshire, Aug.* 1852.
d. *Lewes, Sept.* 1852.
e. *Wray, Lancaster, April* 1852.
f. *Mr. Ralfs, Jan.* 1852.
g. *Pond near Lewes, Feb.* 1852.

38. ACHNANTHIDIUM, *Smith,* ii. 30.

1. ACHNANTHIDIUM LANCEOLATUM, ii. 30. t. 37. f. 304. B.M.
a. Beachey Head, Aug. 12, 1851.
b. *Beachey Head, Aug.* 1851.

2. ACHNANTHIDIUM COARCTATUM, ii. 31. Supp. t. 61. f. 379. B.M.
a. Grassmere.
b. *Grassmere, Aug.* 1853.
c. *Haverfordwest, April* 1855.
d. *Falaise, M. De Brébisson.*

3. ACHNANTHIDIUM MICROCEPHALUM, ii. 31. Supp. t. 61. f. 380. B.M.

a. Aberdeenshire (*Dr. Dickie*).
b. *Aberdeenshire, Dr. Dickie.*

4. ACHNANTHIDIUM LINEARE, ii. 31. Supp. t. 61. f. 381. B.M.

a. Lasswade (*Dr. Greville*).
b. *Lasswade, Dr. Greville.*

39. RHABDONEMA, *Smith*, ii. 32.

1. RHABDONEMA ARCUATUM, ii. 34. t. 38. f. 305 *a*, *f*, & 305†. B.M.

a. Hastings, Oct. 11, 1851.
b. Cuckmere, Sussex, March 1852.
c. *Poole, Dec.* 1849.
d. *Cuckmere, April* 1852.
e. *Penzance, Mr. Ralfs.*

2. RHABDONEMA ADRIATICUM, ii. 35. t. 38. f. 305 *a*, *b*, *b'*. B.M.

a. Poole Bay.
b. Mediterranean near Marseilles.
c. *Poole Bay, Sept.* 1854.
d. *Marseilles, May* 1854.

3. RHABDONEMA MINUTUM, ii. 35. t. 38. f. 306. B.M.

a. Seaford, Sussex, April 1851.
b. *Seaford, Sussex, March* 1852.
c. *Lancing, Sussex, Aug.* 1852.

40. STRIATELLA, *Smith*, ii. 36.

1. STRIATELLA UNIPUNCTATA, ii. 37. t. 39. f. 307 & 307 *x*. B.M.

a. Sussex, 1852.
b. *Torbay, July* 1846.
c. *Weymouth Bay, Sept.* 1854.
d. *Jersey, Aug.* 1852.
e. *Newhaven, Sussex, Sept.* 1852.
f. *Belfast Bay, July* 1853.
g. *Lancing, Sussex, Mr. Jenner, Oct.* 1843.

41. TETRACYCLUS, *Smith*, ii. 37.

1. TETRACYCLUS LACUSTRIS, ii. 38. t. 39. f. 308. B.M.

   a. Tonnabrick Mountain, co. Galway, July 8, 1853.
   b. Dolgelly.
   c. *Tonnabrick, co. Galway, July* 1853.
   d. *Dolgelly, Mr. Ralfs.*

2. TETRACYCLUS EMARGINATUS, ii. 38. B.M.

   a. Gap of Dunloe, Killarney, July 1855.
   b. *Gap of Dunloe, July* 1855.

Subtribe 4. DIATOMEÆ.

42. DIATOMA, *Smith*, ii. 38.

1. DIATOMA VULGARE, ii. 39. t. 40. f. 309. B.M.

   a. Wareham, May 1849.
   b. Var. β. Plumpton, Sussex.
   c. *Wareham, May* 1849.
   d. *Ardrossan, Dr. Landsborough, April* 1853.
   e. *Cheshunt, Dr. Hassall.*
   f. *Lewes, April* 1852.
   g. *Cork, April* 1855.
   h. β. *Plumpton, Sussex, April* 1852.
   i. β. *Pentland Hills, Dr. Greville, April* 1821.
   j. β. (*D. tenue, Ag.*)
   Orig. spec. Agardh, Herb. Greville.

2. DIATOMA GRANDE, ii. 39. t. 40. f. 310. B.M.

   a. Shannon near Athlone, July 2, 1853.
   b. Nuns Island, Galway, July 4, 1853.
   c. *Corribe River, co. Galway, July* 1853.
   d. *Allanwater, Dr. Greville, June* 1855.
   e. *Shannon, July* 1853.

3. DIATOMA ELONGATUM, ii. 40. t. 40. f. 311, t. 41. f. 311, Supp. t. 60. f. 311. B.M.

   a. Tarring Neville, Sussex, Nov. 1853.
   b. Hastings, May 14, 1851.
   c. Hornby, Lancashire (May 1851).
   d. *Var.* β & γ. *Tarring Neville, Sussex, Nov.* 1853.
   e. *Var.* δ. *Hornby, Lancashire, May* 1854.
   f. *Denton, Sussex, Nov.* 1853.

4. DIATOMA HYALINUM, ii. 41. t. 41. f. 312. B.M.
   a. Jersey, Aug. 1852.

5. DIATOMA MINIMUM, ii. 41. t. 41. f. 313. B.M.
   a. Hove, Sussex, Sept. 1853.

43. GRAMMATOPHORA, *Smith*, ii. 42.

1. GRAMMATOPHORA MARINA, ii. 42. t. 42. f. 314. B.M.
   a. Beachey Head, Aug. 23, 1850.
   b. Eastbourne, *Mr. Jenner*, Aug. 15, 1849.
   c. Var. β. Salt Pans, Hants.
   d. Beachey Head, Aug. 1850.
   e. Hastings, Mr. Jenner.
   f. Beachey Head, 1852.
   g. Coast of Lancashire, July 1852.
   h. Aberdeen, Dr. Dickie.
   i. Var. β. Salt Pans, Hants, Sept. 1854.

2. GRAMMATOPHORA MACILENTA, ii. 43. Supp. t. 61. f. 382.

3. GRAMMATOPHORA SERPENTINA, ii. 43. B.M.
   a. Torbay, July 1846.
   b. Torbay, July 1846.

4. GRAMMATOPHORA ? BALFOURIANA, ii. 43. Supp. t. 61. f. 383. B.M.
   a. Canlochlan, Perthshire, *Dr. Greville.*

44. TABELLARIA, *Smith*, ii. 44.

1. TABELLARIA FLOCCULOSA, ii. 45. t. 43. f. 316. B.M.
   a. (Tunbridge Wells), *Mr. E. Jenner.*
   b. Tunbridge Wells, Dec. 1842, *Mr. Jenner.*
   c. Wareham, Dec. 1849.
   d. Rackham, Sussex, Aug. 1853.
   e. Ben Lawers, Prof. Williamson, Aug. 1853.
   f. Glen Tilt, Dr. Balfour, Aug. 1854.

2. TABELLARIA FENESTRATA, ii. 46. t. 43. f. 317. B.M.
   a. Outerard, co. Galway, July 11, 1853.
   b. (Rackham), *Mr. Jenner.*
   c. Wareham, 1849.
   d. Tunbridge Wells, Mr. Jenner, Oct. 1842.
   e. Wareham, Dec. 1849.
   f. Studland, Dorset, Sept. 1853.

45. AMPHITETRAS, *Smith*, ii. 46.

1. Amphitetras antediluviana, ii. 47. t. 44. f. 318. B.M.
   a. Ilfracombe.
   b. (Salt Pans, Agde, S. of France, May 1854.)
   c. *Ilfracombe, Mr. Ralfs.*

46. BIDDULPHIA, *Smith*, ii. 47.

1. Biddulphia pulchella, ii. 48. t. 44. f. 321, t. 45. f. 321, t. 46. f. 321. B.M.
   a. Ilfracombe (*Ralfs*, 1838).

2. Biddulphia aurita, ii. 49. t. 45. f. 319. B.M.
   a. Pevensey, Sept. 1850.
   b. *Pevensey, Sussex, Sept.* 1850.
   c. *Pevensey, Sussex, March* 1852.
   d. *Pevensey, Sussex, Nov.* 1851.
   e. *Pevensey, Sussex, May* 1852.

3. Biddulphia Rhombus, ii. 49. t. 45. f. 320, Supp. t. 61. f. 320. B.M.
   a. Lewes, Feb. 18, 1852.

4. Biddulphia Baileyii, ii. 50. t. 45. f. 322, Supp. t. 62. f. 322. B.M.
   a. Stomach of Scallop, coast of Sussex, March 1854.

5. Biddulphia turgida, ii. 50. Supp. t. 62. f. 384.

6. Biddulphia regina, ii. 50. t. 46. f. 323. B.M.
   a. *Zygoceros Tuomeyii*, Skye (*Mr. Barlee*).

47. ISTHMIA, *Smith*, ii. 51.

1. Isthmia nervosa, ii. 52. t. 47. B.M.
   a. Ireland, *Mr. Moore* per *Mr. Ralfs.*
   b. *Glenarm, Ireland, Mr. Lyons.*

2. Isthmia enervis, ii. 52. t. 48. B.M.
   a. Torbay.
   b. *Torbay, July* 1846.

Subtribe 5. MELOSIREÆ.

48. PODOSIRA, *Smith*, ii. 52.

1. PODOSIRA MONTAGNEI, ii. 53. t. 49. f. 326. B.M.
   a. Hastings, *E. Jenner.*
   b. *Hastings, Mr. Jenner.*

2. PODOSIRA HORMOIDES, ii. 53. t. 49. f. 327. B.M.
   a. Pevensey, Aug. 1850.
   b. *Pevensey, Sussex, Aug.* 1853.

3. PODOSIRA ? MACULATA, ii. 54. t. 49. f. 328. B.M.
   a. Stomach of Scallop (Kinsale Bay), April 1855.

49. MELOSIRA, *Smith*, ii. 54.

1. MELOSIRA NUMMULOIDES, ii. 55. t. 49. f. 329. B.M.
   a. Seaford, May 16, 1850.
   b. *Shoreham, Sussex, Mr. Jenner, Nov.* 1842.
   c. *Seaford, May* 1850.
   d. *Pevensey, Sussex, Nov.* 1850.
   e. *Bexhill, Sussex, Oct.* 1852.
   f. *Kinghorn, Fife, Dr. Greville, Nov.* 1853.
   g. *Calvados, M. De Brébisson.*
   h. *Var. β. Newhaven, Seaford, Sussex, Nov.* 1853.
   i. *Var. γ. Seaford, Sussex, April* 1854.

2. MELOSIRA BORRERII, ii. 56. t. 50. f. 330. B.M.
   a. Poole Bay, July 1849.
   b. *Poole, July* 1849.
   c. *Swannery, Dorset, Sept.* 1854.
   d. *Var. β. Lewes, Feb.* 1852.

3. MELOSIRA SUBFLEXILIS, ii. 57. t. 51. f. 331. B.M.
   a. Near Largs, Ayrshire.
   b. *Denton, Sussex, Nov.* 1853.

4. MELOSIRA VARIANS, ii. 57. t. 51. f. 332. B.M.
   a. Winterbourne, Lewes, March 1852.
   b. *Itford, Sussex, Sept.* 1853.
   c. *Landport, Sussex, Dec.* 1853.
   d. *Aberdeen, Dr. Dickie.*
   e. *Winterbourne, Lewes, April* 1852.

5. MELOSIRA NIVALIS, ii. 58. t. 53. f. 336. B.M.
   a. Pass of Killiecrankie, Aug. 1854, *Dr. Greville.*

6. MELOSIRA DISTANS, ii. 58. t. 61. f. 385. B.M.
   a. Braemar (Aug. 1854, *Dr. Balfour*).

7. MELOSIRA WESTII, ii. 59. t. 52. f. 333. B.M.
   a. (Stomach of Pectens), coast of Sussex.

50. ORTHOSIRA, *Smith*, ii. 59.

1. ORTHOSIRA ARENARIA, ii. 59. t. 52. f. 334. B.M.
   a. Belfast, *Dr. Dickie*, Dec. 1851.
   b. Lough Mourne, S.W. shore, co. Antrim.
   c. *Wareham, June* 1848.

2. ORTHOSIRA MARINA, ii. 59. t. 53. f. 338. B.M.
   a. Coast of Sussex.

3. ORTHOSIRA DICKIEII, ii. 60. t. 52. f. 335. B.M.
   a. Aberdeen, *Dr. Balfour.*
   b. (Aberdeen, in caves), *Dr. Redfern*, Nov. 12, 1853.
   c. *Aberdeen, Dr. Dickie, Dec.* 1847.
   d. *Aberdeen, Dr. Redfern.*

4. ORTHOSIRA ORICHALCEA, ii. 61. t. 53. f. 337. B.M.
   a. Aberdeenshire, *Dr. Dickie.*
   b. *Cheshunt, Mr. Hassall.*
   c. *Aberdeen, Dr. Dickie.*
   d. *St. Kierans Wells, Clonmacnoise, July* 1855.

5. ORTHOSIRA SPINOSA, ii. 61. Supp. t. 61. f. 386. B.M.
   a. Braemar (Aug. 1854), *Dr. Balfour.*
   b. *Cave at Royat, Auvergne, June* 1854.

6. ORTHOSIRA PUNCTATA, ii. 62. t. 53. f. 339. B.M.
   a. Ormesby (Norfolk, Nov. 1853, *Mr. Bridgman*).
   b. Ditto, ditto, ditto.
   c. *Ormesby, Norfolk.*

7. ORTHOSIRA ? MIRABILIS, ii. 63. B.M.
   a. *Haverfordwest, Mr. Okeden, April* 1855.

Tribe II. SCHIZONEMADÆ.

Subtribe 6. MASTOGLOIEÆ.

51. MASTOGLOIA, *Smith*, ii. 63.

1. MASTOGLOIA DANSEII, ii. 64. Supp. t. 62. f. 388. B.M.
   a. River Tamar, *Mr. Dansey*, 1848.
   b. *Lewes, Oct.* 1851.
   c. *River Tamar, Mr. Dansey*, 1848.
   d. *Belfast, Dr. Dickie, Oct.* 1850.

2. MASTOGLOIA LANCEOLATA, ii. 64. t. 54. f. 340. B.M.
   a. Wareham, Sept. 26, 1851.
   b. *Lancing, Sussex, July* 1854.
   c. *Arran, Dr. Arnott, Aug.* 1854.
   d. *Wareham, Sept.* 1851.

3. MASTOGLOIA SMITHII, ii. 65. t. 64. f. 341. B.M.
   a. Lewes, Oct. 18, 1851.
   b. Var. β. Cumbrae, Oct. 1854 (*Mr. Hennedy*).
   c. *Little Sea, Dorset, May* 1854.

4. MASTOGLOIA APICULATA, ii. 65. Supp. t. 62. f. 387. B.M.
   a. Salt Pans, Hants, Sept. 12, 1854.
   b. *Salt Pans, Hants, Sept.* 1854.

5. MASTOGLOIA GREVILLII, ii. 65. Supp. t. 62. f. 389. B.M.
   a. Pentland Hills, July 1854.

Subtribe 7. BERKELEYIEÆ.

52. DICKIEIA, *Smith*, ii. 66.

1. DICKIEIA ULVOIDES, ii. 66. t. 54. f. 342.

2. DICKIEIA PINNATA, ii. 66. t. 54. f. 343. B.M.
   a. Aberdeen, Dr. Dickie, Sept. 1849.

53. BERKELEYA, *Smith*, ii. 67.

1. BERKELEYA FRAGILIS, ii. 67. t. 54. f. 344. B.M.
   a. Torbay, Mrs. Griffiths.

Subtribe 8. SCHIZONEMEÆ.

54. ENCYONEMA, *Smith*, ii. 67.

1. ENCYONEMA PROSTRATUM, ii. 68. t. 54. f. 345. B.M.
   a. Plumpton, Sussex.
   b. Lancaster, Mr. Johnson, Nov. 1853.
   c. Hornby, Lancashire, May 1853.
   d. Plumpton, Sussex, April 1852.
   e. Var. β. Penzance, Mr. Ralfs.

2. ENCYONEMA CÆSPITOSUM, ii. 68. t. 55. f. 346. B.M.
   a. Plumpton, Sussex, April 1852.
   b. Plumpton, Sussex, April 1852.
   c. Sowley Pond, Hants, Sept. 1854.
   d. Dunsappie Lough, Dr. Greville, Aug. 1853.

55. COLLETONEMA, *Smith*, ii. 69.

1. COLLETONEMA EXIMIUM, ii. 69. t. 56. f. 350. B.M.
   a. Brackish-water, Brooks, Lewes, Sept. 6, 1851.
   b. Bristol, Mr. Thwaites.

2. COLLETONEMA VULGARE, ii. 70. t. 56. f. 351. B.M.
   a. Lewes, March 1853.
   b. Lancaster, April 1852.

3. COLLETONEMA NEGLECTUM, ii. 70. t. 56. f. 352. B.M.
   a. Co. Cork.
   b. *Beddingham, Sussex, Nov.* 1853.

4. COLLETONEMA SUBCOHÆRENS, ii. 70. t. 56. f. 353. B.M.
   a. Wareham.
   b. *Wareham, May* 1853.

56. SCHIZONEMA, *Smith*, ii. 71.

§ I.

1. SCHIZONEMA CRUCIGER, ii. 74. t. 56. f. 354, t. 57. f. 356. B.M.
   a. Hastings.
   b. *Hastings, May* 1852.

2. SCHIZONEMA HELMINTOSUM, ii. 74. t. 56. f. 355. B.M.
   a. *Cuckmere, Sussex, March* 1852.

3. SCHIZONEMA COMOIDES, ii. 75. t. 57. f. 358. B.M.
   a. Coast of Sussex.
   b. *Torbay, Mrs. Griffiths.*

4. SCHIZONEMA CONFERTUM, ii. 75. t. 57. f. 359.

5. SCHIZONEMA MUCOSUM, ii. 75. t. 57. f. 360. B.M.
   a. *Shoreham, Sussex, April* 1854.

6. SCHIZONEMA SMITHII, ii. 75. t. 57. f. 362. B.M.
   a. *Torbay, Mrs. Griffiths.*

7. SCHIZONEMA TORQUATUM, ii. 76. t. 57. f. 361. B.M.
   a. *Salcomb, Devon, Mrs. Griffiths.*

8. SCHIZONEMA DIVERGENS, ii. 76. t. 57. f. 363. B.M.
   a. *Larne, Dr. Dickie.*

9. SCHIZONEMA GREVILLII, ii. 77. t. 58. f. 364. B.M.
   a. Pevensey.
   b. *Pevensey, Sussex, Nov.* 1850.

10. Schizonema molle, ii. 77. t. 58. f. 365.

§ II.

11. Schizonema Dillwynii, ii. 77. t. 58. f. 366. B.M.
a. Wareham.
b. Seaford, Sussex, Feb. 1852.

12. Schizonema implicatum, ii. 78. t. 59. f. 367. B.M.
a. Torbay, Mrs. Griffiths.

13. Schizonema obtusum, ii. 78. t. 58. f. 368. B.M.
a. Salcomb, Mrs. Griffiths.

14. Schizonema ramosissimum, ii. 78. t. 59. f. 369. B.M.
a. Torbay, Mrs. Griffiths.

15. Schizonema laciniatum, ii. 79. t. 59. f. 370.

16. Schizonema parasiticum, ii. 79. t. 59. f. 371. B.M.
a. Cuckmere, Sussex, April 1852.

17. Schizonema gracillimum, ii. 79. t. 59. f. 372.

Subtribe 9. HOMŒOCLADIEÆ.

57. HOMŒOCLADIA, *Smith*, ii. 80.

1. Homœocladia Martiana, ii. 80. t. 55. f. 347. B.M.
a. Mr. Ralfs, 1852.

2. Homœocladia filiformis, ii. 80. t. 55. f. 348. B.M.
a. Bexhill, Sussex, Sept. 1850.
b. Var. β. "*H. limosa*," *Lewes, Aug.* 1852.

3. Homœocladia sigmoidea, ii. 81. t. 55. f. 349. B.M.
a. Wareham, Jan. 1850.

58. ASTERIONELLA, *Smith*, ii. 81.

1. ASTERIONELLA FORMOSA, ii. 81. B.M.

   a. "*A. Roperii*," Tenby (*Mr. Roper*).
   b. *A. Roperii, Tenby, April* 1853.

2. ASTERIONELLA RALFSII, ii. 81. B.M.

   a. *Dolgelly, Sept.* 1844.

3. ASTERIONELLA BLEAKELEYII, ii. 82. B.M.

   a. Harwich (May 1853, *Mr. Bleakeley*).

APPENDIX.

Specimens of Earths in Balsam.

1. Peterhead Deposit.
2. Peterhead Deposit.
1. Premnay Peat.
2. Premnay Peat.
1. Dolgelly Earth.
1. Lough Island Reavey Deposit.
2. Lough Island Reavey Deposit.
1. Cantyre Peat.
2. Cantyre Peat.
1. Lough Mourne Deposit.
2. Lough Mourne Deposit.
3. Lough Mourne Deposit.
4. Lough Mourne Deposit.
1. Mull Deposit.
2. Mull Deposit.
3. Mull Deposit.
1. Pass of Killiecrankie.
1. Ben M^c^Dhui.
1. Lough Neagh.
1. Ormesby, Norfolk.
1. Poole Bay, Dorsetshire.
1. Barley Lake, Co. Cork.
1. New Forest, Hants, Sept. 11, 1854.
1. Shagalion, Poole Bay, Sept. 7, 1854.

Dry (in Papers).

1. Lough Mourne, June 1853.
2. Lough Mourne, Sept. 1849.
3. Lough Mourne Deposit, S.W. corner, Feb. 1850.
4. Premnay Peat, Dr. Dickie, Dec. 1852.
5. Premnay Peat, Aug. 1848.
6. Mull Deposit, Nov. 1853.
7. Peterhead Deposit, Aug. 1848.
8. Cantyre Peat.
9. Dolgelly Earth, Lancaster, 1850.
10. Lough Island Reavey Deposit, Mr. Thompson, Belfast.

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